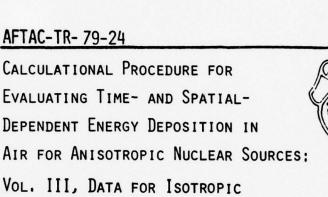


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AFTAC-TR- 79-24

NEUTRON SOURCES





Radiation Research Associates, Inc. Fort Worth, Texas

2 April 1979

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APR 27 1979

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AIR FORCE TECHNICAL APPLICATIONS CENTER HEADQUARTERS UNITED STATES AIR FORCE PATRICK AIR FORCE BASE, FLORIDA 32925

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Fort Worth, Texas 76107	(2)15F.
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sulting from neutron capture and inelastic scattering in air. The energy deposition data for line-beam sources and for point isotropic sources were found to compare favorably with similar data reported in the literature. The RENDER procedure was run utilizing energy deposition data from the conical source-data base for a 9-to-10-MeV gamma-ray source and the results of the convolution over source emission direction and time were found to be in good agreement with the input data, indicating that the RENDER procedure performs the time-and-angle convolution correctly.

Volumes II through IV of this report present tabulated data on the timedependent energy deposition in air versus range for neutron and gamma-ray point isotropic sources and for secondary gamma rays generated by point isotropic neutron sources. Also given in Vol. V are curve-fit coefficients for use in computing the energy deposition in air vs distance and source emission angle for line-beam sources of neutrons and gamma rays. Coefficient data are also given for secondary gamma-ray energy deposition by line-beam neutron sources.

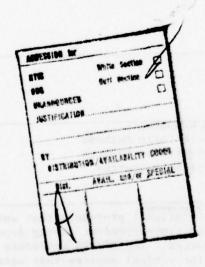


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I. INTRODUCTION

This is the third volume of a five-volume report which presents the results of an extensive parameter study on gamma ray, neutron and neutron-produced secondary gamma-ray energy deposition in a homogeneous medium of air (ρ =1.225X10 $^{-3}$ g/cm 3) and describes a computer procedure (RENDER) which was developed to utilize the parametric data when computing the time and spatial distributions of the energy deposition in air for anisotropic nuclear sources.

This volume presents calculated time-dependent energy deposition data for point isotropic neutron sources emitting radiation in the source energy intervals listed in Table I. The radial intervals used in storing the energy deposition data are given in Table II. The delay time intervals used to store the energy deposition data are given in Table III. The delay time is the time of energy deposition minus the time of arrival of the uncollided radiation. All source photons were emitted instantaneously by the source. The calculational methods used to compute the energy deposition data are described in Vol. I of this report.

The time-dependent energy deposition data in units of keV m⁻³sec⁻¹/source neutron vs radial distance are given in Tables IV through XXII. The numbers at the bottom of each column in these tables are the total time-dependent energy deposition (keV sec⁻¹/source neutron) occurring within 1500 meters from the source. The energy deposition data includes the contribution by neutrons that underwent first-order scattering events within the energy deposition volume as well as those contributions by neutrons that underwent first-order scattering outside of the energy deposition volume before scattering and losing energy in the deposition volume.

The time-integrated total energy deposition data vs radial distance and source-energy interval are also listed in Table XXIII for point-isotropic neutron sources. The units for the neutron energy deposition data are keV m⁻³/source neutron. The energy deposition data given in Table XXIII can be converted to air kerma rate (exposure rate in air, $\rho = 1.225 \times 10^{-3}$ g/cm³) by multiplying the energy deposition data by 4.708×10^{11} . The units of the resulting air kerma rate are rad hr⁻¹/source neutron sec⁻¹.

TABLE I. SOURCE ENERGY INTERVAL BOUNDS USED FOR NEUTRON PROBLEMS

Neutron Source Energy Intervals (MeV)

0.001 - 0.00335

0.00335 - 0.0912

0.0912 - 0.0248

0.0248 - 0.0676

0.0676 - 0.184

0.184 - 0.303

0.303 - 0.50

0.50 - 0.823

0.823 - 1.353

1.353 - 1.738

1.738 - 2.232

2.232 - 2.865

2.865 - 3.680

3.680 - 6.070

6.070 - 7.790

7.790 - 10.0

10.0 - 12.0

12.0 - 13.5

13.5 - 15.0

TABLE II. RADIAL INTERVALS USED TO DEFINE DEPOSITION GEOMETRY

	II (m)	nterval)
0	_	10
10	_	20
20	-	40
40	-	60
60	-	80
80	-	100
100	-	125
125	-	150
150	-	175
175	-	200
200	-	250
250	-	300
300	-	350
350	-	400
400	-	450
450	-	500
500	-	600
600	-	800
800	-	1000
1000	-	1200
1200	-	1500

TABLE III. BOUNDS OF DEPOSITION TIME INTERVALS USED IN NEUTRON PROBLEMS

Deposi	tion (µs	Ti	me Interval
	11-		
	0	-	0.2
	0.2	-	0.3
	0.3	-	0.5
	0.5	-	1.0
	1	-	2
	2	-	3
	3	-	5
	5	-	7
	7	-	10
	10	-	20
	20	-	35
	35	-	50
	50	-	70
	70	-	100
	100	-	200
	200	-	400
	400	-	700
	700	-	1000
	1000	-	2000
	2000	-	3500
	3500	-	15000
	15000	_	100,000

TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT ISOTROPIC NEUTRON SOURCE EMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM 0.001 TO 0.00325 MeV TABLE IV.

	-
	neutron
	source
7	sec /
-3	E
	(keV

;			
	2.00E-06	4000 \$000000000000000000000000000000000	7,889
		000000000000000000000000000000000000000	
	10		S
		0000 0000000000000000000000000000000000	03
	101		0
()			03
ME (S	101		7.439E
LAY	10	000000000000000000000000000000000000000	03
DE	00 0 E		6.308E
	0	0000 2000000000000000000000000000000000	03
	.00E	14	7.126E
	VAL (METERS)	1444 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	/SEC
			101

TABLE IV. (Continued)
(keV m sec 1/source neutron)

	110		
	00	M44 04400000000000000000000000000000000	7
		HHM00000000000000000000000000000000000	
	S		0
(0	-05	44000000000000000000	03
V NEUTRONS	000	000000000000000000000000000000000000	10
EC)	110	000000000000000000000000000000000000000	
. 350 TIM	00E-0		8
ELAY		000000000000000000000000000000000000000	03
1.000E-03	5.00E-06		
+		000000000000000000000000000000000000000	03
	3.00E-0	40000000000000000000000000000000000000	
	IAL DISTANCE ERVAL (METERS)	14440000000000000000000000000000000000	E
			TOTA

100 14m	108400000 - MONOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO	31E 0
100	I WOONWONK	2E 0
JEUTRONS 00E-1011	1 984 4 6 7 9 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	29E
Continued source neut source neut S50E-03 ME TIME (SEC)	I W/W/40400000000000000000000000000000000	8E 0
1ABL	14000000000000000000000000000000000000	36
1 H C		140E 0
DI STANCE	11111111111111111111111111111111111111	DEPOSITION
		TOTAL

TABLE IV. (Continued)

(keV m -3 -1/source neutron)

NEUTRONS			
.350E-03 MEV			
1.000E-03 TO 3	2.00E-03 3.50E-03	 	4.212E 01
1	1.00E-03	004040/V 4040/V044000000 00400/V0400/V040000000	1.880E 0
	RADIAL DISTANCE INTERVAL (METERS)	14440000000000000000000000000000000000	TOTAL ENERGY DEPOSITION/SEC
			TOTAL

TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT ISOTROPIC NEUTRON SOURCE EMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM 0.00325 TO 0.00912 MeV TABLE V.

(keV m sec 1/source neutron)

DELAY TIME (SEC)

	10	
	000000000000000000000000000000000000000	0
2.00E-06		00
90	000000000000000000000000000000000000000	4
1.00E_06	8 4000000000000000000000000000000000000	42
90	000000000000000000000000000000000000000	4
5.00E-07	40000000000000000000000000000000000000	9
-07	000000000000000000000000000000000000000	4
· M		0
0.7	000000000000000000000000000000000000000	4
2.00F-07		2.802E
0.7	000000000000000000000000000000000000000	0.4
.00E	©0000000000000000000000000000000000000	3.715
IAL DISTANCE ERVAL (METERS)	14440000000000000000000000000000000000	DEPOSITION/SEC
		101

TABLE V. (Continued)

-3 -1/source neutron)

	i é é é é é é e e e e e e e e e e e e e	
3.50E-05	1 V 40 4 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1
. 00E-05	14/000000000000000000000000000000000000	65E 0
10		:
S	1 4400000000000000000000000000000000000	0
1.00E-05		2.972E
S S S S		14
W 1	NOCCOCCOCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	. 685E
410	410	~
0 × 1 0	000000000000000000000000000000000000000	4
571.0	100000000000000000000000000000000000000	0
.350E-03 5.00E-06	4000000000000000000000000000000000000	3.203E
D 110	100000000000000000000000000000000000000	0.4
3.00E-06	000000000000000000000000000000000000	3.432E
STANCE	100000000000000000000000000000000000000	110N/SEC
200		SII
RADIAL INTERVA	4/4 4 6 5 0 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 / 1 /	DEPO
		_ L
		TOTAL

TABLE V. (Continued) (keV m⁻³ sec⁻¹/source neutron)

110		0
110		96
7.00	MOVRAAWMHAHAHA	0
119		0
100	NV4-0V WV-00044VN-1000000 UWV-0V-VUV-04-00-04-NO000000 UWO-4-0-0-00-0000000000000000000000000000	0
8		03
	N@VOVVN@WN4V@NOOCCOO N@VNOO4 ON44 4@0000000 MMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	
AC 10	10000000000000000000000000000000000000	0
1 110	000000000000000000000000000000000000000	
ELA 104	100000000000000000000000000000000000000	0
3.350E-03 D-7.00E-05	1-1000000000000000000000000000000000000	1.800E
100	111111	0
110	1 40 40 44 0000000000000000000000000000	2.087E
Wa.	1 444444444444444444444444444444444444	N/S
VA L	10000000000000000000	POSI
RADIA	11111111111111111111111111111111111111	RGY DE
		TOTAL ENE

(Continued)	/source neutron)
(Cont	source
	7
TABLE V.	sec_/
TA	-a
	(keV m

120E-03 MEV NEUTRONS			
3.350E-03 TO 9	2.00E-03	4 NO 8004 000 042 + 400 800 000 000 000 000 000 000 000 000	5.639E 01
	Im	V4&V4V04V0&0+WWW0000	2.955E 02
0000 9400 9400 9400 9400 9400 9400 9400	ALAVA	44444000000000000000000000000000000000	ENERGY DEPOSITION/SEC
			TOTAL

TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT ISOTROPIC NEUTRON SOURCE EMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM 0.00912 TO 0.0248 MeV TABLE VI.

(keV m -3 sec 1/source neutron)

1		1 -40,00000000000000000000000000000000000	4
		VO 44V455 00000000000000000000000000000000	95E
	-05	HHHNM0000000000000000000000000000000000	
	2.00E-05		29
	-05		0.5
	1.00E-05	000000000000000000000000000000000000	· co
S	0.2	000000000000000000000000000000000000000	0.5
TIME (SE	7.00F-06-	MMM00000000000000000000000000000000000	55
LAY	90		0.5
DE	5.00E-06-		1.188E
	90-	HH000000000000000000000000000000000000	0.5
	3.00E-0	44000000000000000	-
	DISTANCE L (METER	44440000000000000000000000000000000000	0S1T10N
	RADIAL	444 @ CONTO CO	RGY DEP
			TOTAL ENE

TABLE VI. (Continued) (keV m⁻³ sec⁻¹/source neutron)

NEUTRONS	04-04 7.00E-04-0	0000044444 4000040 00000000000000000000	8E 03 1.521E 0
	000 0 E - 0	WV4+@V44444@WV6000000000000000000000000000000000000	1.463E 04
. 480E-0	0E-04-02.00E-0	10000401404400400000000000000000000000	55
9.120E-03_TO_2	005 00E-0	W	5.593E 04
	-05 0E-0	1 4474 400 600000000000000000000000000000	96
	ERVAL (METER	44444600000000000000000000000000000000	•
			101

TABLE VI. (Continued) (keV m⁻³ sec⁻¹/source neutron)

		H000000000000000000000000000000000000	2
	E-06-		
	10	H0000000000000000000000000000000000000	0.5
	10	W //OCCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCO	1.361E
	10	H0000000000000000000000000000000000000	0.5
NEUTRONS	00	000000000000000000000000000000000000000	1.219E
MECC		H0000000000000000000000000000000000000	0 4
0E-02	00	000000000000000000000000000000000000000	5.847E
LAY	07	 +00000000000000000000000000000000000	0.5
.120E-03_F	00	4 COOCCOCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	
0	0	H0000000000000000000000000000000000000	0.5
	mo.		14
	ERVAL CMETER	40448000000000000000000000000000000000	DEPOSITI
			101

NEU TRONS	
(Continued)	0.1
	2
1001	978E 0
AT 1000000000000000000000000000000000000	0
4	OTAL ENERGY

TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT ISOTROPIC NEUTRON SOURCE EMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM 0.0248 TO 0.0676 MeV TABLE VII.

	neutron
	source
1	sec 1
-3	E
	(keV

		000000000000000000000000000000000000000	
	00	440000000000000000000000000000000000000	4.376E
		000000000000000000000000000000000000000	0.5
	900	+00000000000000000000000000000000000000	4,685E
	90		0.5
	-07 00E	+0000000000000000000	4.233E
_	110		0.5
ME	00		4.032E
-	110		0.5
DE	00 E	000000000000000000000000000000000000000	4.004E
	0	400000000000000000000000000000000000000	0.5
	00	000000000000000000000000000000000000000	3.645E
	DISTANCE AL (METER	44444000000000000000000000000000000000	DEPOSITIO
			101

TABLE VII. (Continued) (keV m⁻³ sec⁻¹/source neutron)

		19	
	0.5	000000000000000000000000000000000000000	0.5
	90 E		2.696E
	110		0
	2.00E-05		00
S	-05	0	0.5
V NEUTRONS	00 00 00	04400000000000000000000000000000000000	3.924E
S. C.	-05		0.5
S	00 E	000000000000000000000000000000000000000	06E
	10H	00000000000000000000000000000000000000	4.1
LO	110	0000000000000000000	0.5
480E-02 T	(ww	000000000000000000000000000000000000000	3.927E
~	90-	HHC00000000000000000000000000000000000	0.50
	3.00E-0		5
	TANCE	104 000 000 000 000 000 000 000 000 000	N/S
	01		1180
	ADIA	44440000444000000000000000000000000000	Y DE
	α		TOTAL ENERG
			TAL
			10

TABLE VII. (Continued)

(keV m⁻³ sec⁻¹/source neutron)

	20	
141	- 10/4000/W4 9/180/W40W000 4/40W000 4/40W0W404040/W000 11/W0W4 wow wood on woo woo woo woo woo woo woo woo woo	95
41	• 1 4 7 9 9 0 7 9 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	53E 0
0 N S 1 4 1	.144000400044744000000000000000000000000	86
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5.006-05	10000000000000000000000000000000000000	81
DISTANCE	44440000000000000000000000000000000000	ENERGY DEPOSITION/
		TOTAL

and the state of t

Continued)	neutron)
TABLE VII. (Cont	3 sec -1/source
TABL	kev m-3

		21	
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			:
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NEUTRONS			:
80			1
5			:
N			!
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SE SE			:
0			:
NI W			:
76			:
40			:
20	03	000000000000000000000000000000000000000	0.1
2.480E-12 TO	MM		L
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	E .		L L
	00	00000000000000000000000000000000000000	16
	201	04468W4N4W86N60446000	0
	1	1898976万421842126	10
	-		10
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	AZ		3
			ER
			EN
			TOTAL ENERGY
			TA
			10

TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT ISOTROPIC NEUTRON SOURCE EMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM 0.0676 TO 0.184 MeV TABLE VIII.

(keV m⁻³ sec⁻¹/source neutron)

		+++0000000000000000000000000000000000	90
	00	N4 V40000000000000000000000000000000000	2
		000000000000000000000000000000000000000	90
	00	W4 WC0000000000000000000000000000000000	
	90	000000000000000000000000000000000000000	90
	0 E - 0	000000000000000000000000000000000000000	-
3:	0.7	000000000000000000000000000000000000000	90
AE C	3.00E-07		1.936E
FLA	0.7	000000000000000000000000000000000000000	90
0	E-07	000000000000000000000000000000000000000	1.625E
	_	000000000000000000000000000000000000000	90
	.00E	00000000000000000000000000000000000000	1.122E
	VAL (METERS)	144 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 -	/SEC
			101

TABLE VIII. (Continued)
(keV m⁻³ sec⁻¹/source neutron)

	5	00-10000000000000000000000000000000000	2
	E-0		
	-05 50E-0		3E 0
NEUTRONS	1.00E-05	000000000000000000000000000000000000000	1.254E 06
.840E-01 MEV		044000000000000000000000000000000000000	9E
.760E-02 TO 1	006 06-0	00000000000000000000000000000000000000	1.407E 06
•	3.00E-06 5.00E-0		1.548E 06
760 00 760 00	DISTANCE AL (METERS)	14440000000000000000000000000000000000	DEPOSITION/

TOTAL

TABLE VIII. (Continued)

	neutron)
	source
•	sec '
1	E
	(keV

	00 00 00 00 00 00 00 00 00 00 00 00 00	1 000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.946E 03
	4.00E-04 7.00E-04	10000000000000000000000000000000000000	1.192E 04
V NEUTRONS	2.00E-04 4.00E-04	000000000000000000000000000000000000000	6.209E 04
E-01 ME	1.00E-04 2.00E-04	44000000044000000000000000000000000000	2.422E 05
n2 TO	50 E-0		4.958E 05
	5.00E-05	14/14/2014/2014/2014/2014/2014/2014/2014	6.642E 05
	VAL (METERS)	14444000000000000000000000000000000000	DEPOSITION/SEC
			TOTAL

TABLE VIII. (Continued)
(keV m⁻³ sec⁻¹/source neutron)

.840E-01 MEV NEUTRONS			
6.760E-02 TO 1.	00	140000 00000000000000000000000000000000	8.441E 01
•	30-	000000000000000000000000000000000000000	
	FAL	44440000000000000000000000000000000000	DEPOSITION
			TOTAL

TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT ISOTROPIC NEUTRON SOURCE EMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM 0.184 TO 0.303 MeV TABLE IX.

	neutron)
	source
-	sec /
-3	/ m /
	(ke/

DELAY TIME (SEC)

	000000000000000000000000000000000000000	90
.00E-0	VVV00000000000000000000000000000000000	3.773E
2 90	 NH000000000000000000000000000000000000	90
90		3,321E
90	 Naccoocoocoocooco 0accoocoocoocoocoo	90
100		3.739E
0.		90
3.00E-07		3,800E
07	 MODDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	90
2.00E-07		4.335E
0.7	000000000000000000000000000000000000000	90
.00E 00		4.01
TANCE METERS)	44446666666666666666666666666666666666	ONISEC
015		SI
RADIAL	404 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RGY DEPO
		DIAL FNE
		-

TABLE IX. (Continued)
(keV m⁻³ sec⁻¹/source neutron)

		1	
	00	ичччргоды часс	
		wa w w w w w w w w w w w w w w w w w w	0E 0
V NEUTRONS	S I	00000000000000000000000000000000000000	2.678E 06
3.030E-01 HEY	WO.	041000000000000000000000000000000000000	3.010E 06
840E-01 TO DELA	5.00E-06-06	4-W000000000000000000000000000000000000	3.225E 06
1,	3.00E-06-	144	3.057E 06
100 m	ES)	11111111111111111111111111111111111111	DEPOSITION/
			TOTAL

TABLE IX. (Continued)
(keV m -3 sec -1/source neutron)

	04-0	いっこのの数とあるのでの数と数でるののの	3.633E 03
	4 H	H@HHHHHHM@A4NHHON4N	4
NEUTRONS	2.00E-04 4.00E-04	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9.375E 04
.030E-01	14H	R&&&&&&&WWU4F44@UU C 4 4 4 4 7 4 7 6 7 7 7 7 7 7 7 7 7 7 7 7	4.263E 05
1.840E-01 TO 3	05 0E-0	OWW&& 400W&V /0001400000 OV & V /4 WW V / OV 4 WW V / V C OO MMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMMM	9.272E 05
	5.00E-05	04444000462444 0004000000000000000000000	0
	DISTANCE AL (METERS)	14440000000000000000000000000000000000	ENERGY DEPOSITION/SEC
			TOTAL

TABLE IX. (Continued)

	neutron)
	source
1	sec /
-	E
	keV

01	DISTANCE 1.00E-03 2.00E-03 3.50E	11111111111111111111111111111111111111	DEPOSITIO
	42	नन	-

TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT ISOTROPIC NEUTRON SOURCE EMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM 0.303 TO 0.50 MeV TABLE X.

		H4400000000000000000000000000000000000	90
	100	000000000000000000000000000000000000000	7.051E
		000000000000000000000000000000000000000	
	000 000 000	000000000000000000000000000000000000000	8.382E
	110		90
	10		8.343E
EC)	-0.7	mococcoccoccoccocc	90
TIME (S	05 0E		8.616E
FLAY	-0.7	maaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	0.7
90	05 0E		1.088E
		moccooccooccocco	90
	.00E 0		6.997E
	DISTANCE L (METER	44440000000000000000000000000000000000	DEPOSITION
			101

TABLE X. (Continued)
(keV m -3 sec -1/source neutron)

31			
	00E-0	044446 0484949	3E 0
	05 06 0	4WWWWHHO 4HWW OWN H4ONOOV 4000000000 OWSV ON WIN W WHOOOOOOO OWSV ON WIN W WHOOOOOOO IIIIIIIIIIIIIIIIIIIIIIIIIIIII	2
NEUTRONS	0E-05-	1044@00040/00000000000000000000000000000	5.192E 06
3,030E-01 TO 5,000E-01 MEV DELAY TIME (SEC)	E-06-		6,459E 06
	00E-0	4WWV-0	87E 0
	3.00E-06	м нии с 4 имоосоооооооооооооооооооооооооооооооооо	255
	E S)	40400000000000000000000000000000000000	RGY
			TOTAL ENE

TABLE X. (Continued)

(keV m⁻³ sec⁻¹/source neutron)

	E4-	0044WVW0000V0WVW44W0WV	0
	00 E - 0	00000000000000000000000000000000000000	1.832E 04
NEUTRONS	004 00 00 00 00 00 00 00 00 00 00 00 00	000000000000000000000000000000000000	1.261E 05
ο <u>τ</u>			5.957E 05
3.030E-01 TO 5.		00140044000000000000000000000000000000	1.422E 06
	5.00F		2.0445 06
	DISTANCE (METERS)	14440000000000000000000000000000000000	ENERGY DEPOSITION/SEC
			TOTAL

TABLE X. (Continued)

	neutron)
	source
1	sec '
1	, E
1	keV

30E-01	DISTANCE 1.00E-03 2.00E-	11 190 00 00 00 00 00 00 00 00 00 00 00 00 0	DEPOSITION/S
--------	--------------------------	----------------------------------------------	--------------

TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT ISOTROPIC NEUTRON SOURCE EMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM 0.50 TO 0.823 MeV TABLE XI.

	-
	neutron
	source
-	sec /
-3	E
	(keV

		0
100	M-W000000000000000000000000000000000000	1,1746
90		0.7
1.00E-06	404000000000000000000000000000000000000	1,053E
90	MN000000000000000000000000000000000000	0.7
	400000000000000000	1.248E
07	MCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	90
100	000000000000000000000000000000000000000	498E
3.00	a	
110	M0000000000000000000000000000000000000	0.7
E-07		1.101E
0.7	M0000000000000000000000000000000000000	0.7
.00E 0	m	1.288E
TANCE METERS)	1111 104 08000V 000000000000000000000000000000	ONZSEC
VAL	000000000000000000000000000000000000000	POSI
ADI	40460000000000000000000000000000000000	2 5
		ENER
		AL
		101
	ADIAL DISTANCE .00E 00 - 2.00E-07 3.00E-07 5.00E-07 1.00E-06 2.00E-06 3.00E-06	ADIAL DISTANCE NATIONAL DE CONTRETANCE NATIONAL DE CON

TABLE XI. (Continued)

	05-0 0E-0		61E 0
	2.00E-05-05		79E 0
V NEUTRONS	1.00E-05-	00000000000000000000000000000000000000	8.752E 06
.230E-01 ME	0E-06- 1.00E-0	00000000000000000000000000000000000000	9.544E 06
000E-01 TO 8	M6.	@M&MAMOOOOOOOOOOO	1.034E 07
5.	101		•
	DIAL DISTANCE	11111111111111111111111111111111111111	RGY DEPOSITION
			TOTAL ENE

(Continued) XI TABLE

sec /source neutron) m-3 (keV

	00	と44@との@るとで42044の4240ころの4440000000000000000000000000000000000	.112
NEUTR	0 0 E - 0	աասաաաաաաաաաաաաաաա	.655E 0
E (SEC	0E-04-	00/4/0444WWQHHQVQV@WQ 00/00@QV4QHHQHW4HV@VQ 00/00/04/04/04/09/06/06/06/06/06/06/06/06/06/06/06/06/06/	.970E 0
006-01	005-0		66E 0
	E-05 00E-0	のでですときます。 のででは、	3.888E 06

3

ENE

OTAL

RADIAL

TABLE XI. (Continued)

neutron)	
source	
sec_1	
, E	
(keV	

NEUTRONS			
DELAY TIME (SEC)	.5	ONBONOGONGOS ONBONOGOS OS OS	90E
5.000E-01	1.00E-03 2.00		0
	RADIAL DISTANCE INTERVAL (METERS)	44440000000000000000000000000000000000	POSITION/SE
			TOTAL E

TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT ISOTROPIC NEUTRON SOURCE EMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM 0.823 TO 1.353 MeV TABLE XII.

DELAY TIME (SEC)

1 90	000000000000000000000000000000000000000	07
2.00E-06	00000000000000000000000000000000000000	2.192E
90	 NN+00000000000000000000000000000000000	07
1.00E-06		•
90	MN00000000000000000000	0.7
5.00E-07		2.242E
0.7	M0000000000000000000000000000000000000	0.7
3.00E-07	4 7000000000000000000000000000000000000	1.982E
0.7	M0000000000000000000000000000000000000	0.7
2.00E-07	7.000000000000000000000000000000000000	2.295E
0-07	M0000000000000000000000000000000000000	0.7
.00E 2.00E	v	2.194E
WO !	44444444444444444444444444444444444444	SINOI
RADIAL DIS	404480 VIV. 100 VIV.	ENERGY DEPOSI
		TOTAL

39

TABLE XII. (Continued) (keV m⁻³ sec⁻¹/source neutron)

	3.50E-05-05-05-0	000000000000000000000000000000000000	7 8.595E D
	200	ではできた。 できまり 1000000000000000000000000000000000000	26
V NEUTRONS	005-0	HRO@R/R4WV HP HH HP 00000000000000000000000000000000000	35E
SEC)	06-0	00000000000000000000000000000000000000	0
. 230E-01 TO DELA	0.06-0	747W440 97-044-040000000000000000000000000000000	81
80			20
	TERVAL METER	404 4 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DEPOSITION/S
			TOTA

TABLE XII. (Continued) (keV m⁻³ sec⁻¹/source neutron)

	7.00E-04 1.00E-03	00000000000000000000000000000000000000	4.595E 03
	0 0 E - 0	OOL OBRORNIA OBRINGINGBOOK	43E 0
NEUTRONS	2.00E-04 4.00E-04	0004907904408040 00000004474700707040000 0000000000	2.188E 05
.353E 0	110		1.418E 06
230E-01 TO 1	7.00E-05 1.00E-04		4.057E 06
œ	5.00E-05		6.346E 06
	DISTANCE AL (METERS)	404-2000 VOV. 0000000000000000000000000000000	RGY DEPOSITION/SEC
			TOTAL ENE

TABLE XII. (Continued)

(keV m⁻³ sec⁻¹/source neutron)

TIME (SEC)			
8.230E-01 TO 1.353E		0.4944444444444444444444444444444444444	9.035E 01
	00E-0	404444444989484094	7.839E 02
	NTERVAL (METERS)	44440000000000000000000000000000000000	TOTAL ENERGY DEPOSITION/SEC
			TOTAL

TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT ISOTROPIC NEUTRON SOURCE FMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM 1.353 TO 1.738 MeV TABLE XIII.

(keV m⁻³ sec⁻¹/source neutron)

		HHHH0000000000000000000000000000000000	0.7
	00	444W 000000000000000000000000000000000	-
	90	-NNOCOOOOOOOOOOOO	0.7
	OW I	000000000000000000000000000000000000000	3.851E
	90	mm000000000000000000000000000000000000	0
	5.00E-07	4/0000000000000000000000000000000000000	4.228E
EC)	0.7	M0000000000000000000000000000000000000	07
TIME (S	0.05	000000000000000000	3.970E
ELAY	101	0000000000000000000000000000000000000	0.7
0	NW I	10000000000000000000000000000000000000	4.437E
	0.7	M0000000000000000000000000000000000000	07
	.00E	N0000000000000000000000000000000000000	3.865
	STANCE (METERS)	1444 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DEPOSITION
			101

TABLE XIII. (Continued)
(keV m⁻³ sec⁻¹/source neutron)

	50E-05 3.50E-05		E 07 1.119E 0
NEUTRONS	005 00E-0	40///0444wwwo++	20E 0
.73	000 00E	00144444444444444444444444444444444444	
	0.06	4/00/4/00000000000000	0
-	3.00E-06	оги ччы мамиооооооооооооооооооооооооооооооооооо	0
	DISTANCE AL (METERS)	11444000000000000000000000000000000000	DEPOSITION/SEC
			TOTAL

TABLE XIII. (Continued)
(keV m⁻³ sec⁻¹/source neutron)

	00E-04 7.00E-04-0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1E 04 4,648E 0
RO	04 06 06		2.497E 05
.738E 00 ME	0.0E-0	U4w4rv4w0140040000000000000000000000000000000	1.764E 06
00 T	0.05-0	ONO 4 ONO 4 ON 4 T WO HOU Y HOU	5.094E 06
1	201	### ##################################	00
	DISTANCE (METERS)	44446600000000000000000000000000000000	ENERGY DEPOSITION
			TOTAL

TABLE XIII. (Continued) (keV m⁻³ sec⁻¹/source neutron)

TIME (SEC)			
1.353E 00 TO 1.	200	044/444449000004444444	15
1.		0 C V W O C V W C C W C C W C C W C C W C C W C C W C C W C C W C C C W C C C W C C C W C C C W C C C W C C C C C C C C C C C C C C C C C C C C	7.704E 02
	AL DISTANCE RVAL (METER	44444660000000000000000000000000000000	DEPOSITION
			TOTAL

TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT ISOTROPIC NEUTRON SOURCE EMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM 1,738 TO 2,232 MeV TABLE XIV.

(keV m $^{-3}$ sec $^{-1}$ /source neutron)

	90		0.7
	2.00E-06-	000000000000000000000000000000000000000	4.951E
	90-	00000000000000000000000000000000000000	0.7
	1.00E-05	WWV 00000000000000000000000000000000000	5.540E
	90	00000000000000000000000000000000000000	0.7
		#W#00000000000000000000000000000000000	5,186E
() E		000000000000000000000000000000000000000	0.7
ME (SI		000000000000000000000000000000000000000	4.983E
ELAY	0.7	400000000000000000000000000000000000000	0 7
0	007 00E		5.464E
	007	400000000000000000000000000000000000000	07
	.00E 0		5,708E
	TERVAL (METERS)	144460000000000000000000000000000000000	ERGYD
			TOTAL EN
			-

The Continue of

TABLE XIV. (Continued)
(keV m⁻³ sec⁻¹/source neutron)

TABLE XIV. (Continued) (keV m⁻³ sec⁻¹/source neutron)

	14Ш	0400440400000000000000000000000000000	w
	4.00E-04 7.00E-04	044/4/\(NWWWWWWWWWWW\text{MWW\text{MWW\text{MW\t	
NEUTRONS	2.00E-04 4.00E-04		2.704E 05
. 232 M	100	wowwaac/orpwaoonoo4004	2.005E 06
1.738E 00 TO 2	100		5.872E 06
1.7	5.00E-05 7.00E-05	000 CWW CV 4 0W BC CO 4 CO 4 CO 6 CO 6 CO 6 CO 6 CO 6 CO	9.597E 06
	TAL DISTANCE ERVAL (METER	111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RGY DEPOSITION/S
			TOTAL ENE

TABLE XIV. (Continued)
(keV m⁻³ sec⁻¹/source neutron)

1.738E 00 TO 2.232E 00 MEV NEUTRONS DELAY TIME (SEC)	DISTANCE 1.00E-03 2.00E-03	144	/ DEPOSITION/SEC 7.155E 02 8.007E 0
	ADIAL	40400000000000000000000000000000000000	DEP
			TOTAL

1 4 10444440000000000000011

TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT ISOTROPIC NEUTRON SOURCE EMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM 2.232 TO 2.865 MeV TABLE XV.

(keV m $^{-3}$ sec $^{-1}$ /source neutron)

	10	000000000000000000000000000000000000000	0
	00		787
		00000000000000000000000000000000000000	
	100	HO-1000000000000000000000000000000000000	711
		00000000000000000000000000000000000000	
	I M	w44ccccccccccccccccccccccccccccccccccc	1
_	-07	40000000000000000000	0.7
TIME (S	3.00E-07		100
ELAY		4000000000000000000	0 7
	07 0E		
		400000000000000000000000000000000000000	0.7
	06.0		
	AL DISTANC RVAL (METE	11111111111111111111111111111111111111	TOTAL ENERGY DEPUSITION/SEC
			101

51

TABLE XV. (Continued)

	neutron)
	source
1	sec /
-3	E
100	keV

	00E-0		852E 0
	505 50E-0	44444444444444444444444444444444444444	99E 0
V NEUTRONS	05	044 0004 WW 0000040 000000000000000000000000000000	24E 0
CH	–		
.865E 0	0E-0	4844448446 4848744684466600000000000000000000000000	4
CAY	110	000000000000000000000000000000000000000	0
232E 00 T	90	00000000000000000000000000000000000000	10
2	0	000000000000000000000000000000000000000	07
	3.00E-	∞ ν⊶⊶4	6.435
	DIAL DISTANCE	11/4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	DEPOSITION/
			101

TABLE XV. (Continued)

(keV m^{-3} sec⁻¹/source neutron)

		32	
	00E-0		3.892E 03
	4.00E-04		2.506E 04
V NEUTRONS	14H	00400400000000404040404040404040404040	2.669E 05
SE 00 ME	4 M	© CM CM - UCCH-11-11-100 - ICC - CM CM - CM CM - CM	2.166E 06
OO TO	10	CCCN COC	6.459E 06
~	5.00E	04 00400000000000000000000000000000000	1.141E 07
	DISTANCE VAL (METER	14444000000000000000000000000000000000	RGY DEPOSITION/SEC
			TOTAL ENE

TABLE XV. (Continued) (keV m⁻³ sec⁻¹/source neutron)

NEUTRONS			
(SEC)			
2.865E		ാററത്തയ്ക്കെയ്ട് തെയ്ത്തെയ്	
2	2.00E-03		.777E
	6-93 00E-0		6.224E 02
	DISTANCE AL (METER	00000000000000000000000000000000000000	POSITION/SEC
	TER	00000000000000000000000000000000000000	TOTAL ENERGY DE
			TOTAL

TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT ISOTROPIC NEUTRON SOURCE EMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM 2.865 TO 3.680 MeV TABLE XVI.

(keV m $^{-3}$ sec $^{-1}$ /source neutron)

	00	40004600000000000000000000000000000000	1.559E
		000000000000000000000000000000000000000	0.8
	100		
			0.8
	100		1.799E
EC)	-0.7	00000000000000000000000000000000000000	0.8
TIME (S	00	4/0000000000000000000000000000000000000	1.713E
ELA		4000000000000000000	0.8
	07 0E		1.697E
		400000000000000000000000000000000000000	90
	90		1.857E
	VAL CMETER	4/14/08/08/14/4/20/08/20/20/20/20/20/20/20/20/20/20/20/20/20/	DEPOSITIO
			TOT

TABLE XVI. (Continued)

neutron)
/source
sec_1
- E
(keV

2.865E 00 TO 3.680E 00 MEV NEUTRONS DELAY TIME (SEC)

E C		78E 0
110		9E 0
1.00E-05 2.00E-05		6.023E 07
110	000000000000000000000000000000000000000	07
	MOV HBB4 HH4 HBOOCOOCOO MOV 6WV 84 HBOBOOCOCOO MOV 6WV 84 HBOBOOCOOCOO	
90		0.8
5.00E-06		1.136E
90-	0-1000 11100000000000000000000000000000	0.8
3.00E-0	W@@V/NHW	10
DIAL DISTANCE TERVAL (METERS)	144446000000000000000000000000000000000	DEPOSITION/SEC
		101

TABLE XVI. (Continued)

	neutron)
	source
1	sec /
- 3	E
-	keV

	00 E4	00000/04/W04440000/W000	
	7.00E	OOWN-IN44NON400V40WW00	3.00
	000	00000464446060000000000000000000000000	2,000E 04
V NEUTRONS	0 0 E - 0	0004840040000004844440	2.254E 05
SEC)	000	00000044770800000004400 00207000000000000000000000000000000000	1.881E 06
TO ELA	00		5.846E 06
~	5.00E-05	4/0/0/0/4/4/4/4/4/4/4/4/4/4/4/4/4/4/4/4	1.081E 07
	VAL (METER	1444 800 NV O CO C	DEPOSITION/SEC
			101

TABLE XVI. (Continued)

neutron)
/source
sec1
E-8
(keV

0 3.680E 00 MEV NEUTRONS	00		68E 01
.865E 0	.00E	まってきょうちらみままえるまままって ○○○のでいるようならまって。	5.1
2.8	1.00E-03 2	© Ч П М М М Ф Ф Ф М М М М М М М М М М М М М	6E 0
	DISTANCE	44446000000000000000000000000000000000	DEPOSITION
			TOTA

TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT ISOTROPIC NEUTRON SOURCE EMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM 3.680 TO 6.070 MeV TABLE XVII.

	E C	CV30VV4000000000000000000000000000000000	M
	90	000000000000000000000000000000000000000	0 8
		01/00/4/0000000000000000000000000000000	S
	110	000000000000000000000000000000000000000	0.8
	00	V40	0
EC)	0.7		0.8
TIME (S			
ELAY	0.7		0.8
0	· Mu	000000000000000000000000000000000000000	2.782E
	00-	400000000000000000000000000000000000000	0 0
	.00E 00		2.621E
	VAL (METER	111444880000000000000000000000000000000	DEPOSITION
			101

TABLE XVII. (Continued)

neutron)
source
sec_1
1 =
(keV

	3.50E-05	のこれのようらって、日母うころまちのこれの	6E 07 1.949E 0
V NEUTRONS	00	0-1000	
THE (SEC)	0E-06-0	44444444444600000000000000000000000000	7E 0
00 TO DELA	1	ատատատարատարա տատարատ	91E 0
3.	3.00E-06 5.00E-06	0400044440	7E 0
	VAL (METER	######################################	DEPOSITION
			TOTAL

TABLE XVII. (Continued)
(keV m⁻³ sec⁻¹/source neutron)

3.580E 00 TO 6.070E 00 MEV NEUTRONS DELAY TIME (SEC)	00E-04-7.00E-04-7.00E-04-0	ООФФИИФФ44 400 000000000000000000000000000	3E 04 1.929E
	2.00E-04 4.		1.533E 05
	0.04-0	© 000 HO 44 HO 90 P P P P P P P P P P P P P P P P P P	1.385E 06
	05 06 0		4.507E 06
	101	м честичинае оп честа и постичения и постич	9.4776 06
	VAL (METER	404 080 010 000 000 000 000 000 000 000 000	DEPOSITI
			TOTAL

TABLE XVII. (Continued)
(keV m⁻³ sec⁻¹/source neutron)

	:		:
			:
			:
	:		!
	:		
	:		
S	:		
O	:		:
T R			
NEUTRONS			1
	:		!
E ~			
	:		
000			:
யய			
ZO			:
0-			;
FW		111111111111111	
0	00		10
	1 W .	00044004000VBVD4888000	
90	000	MHMA MMMAHHHADINAHM	3
	2		
m	The second second		02
	IMI		ш
	10	00 00 00 00 00 00 00 00 00 00 00 00 00	1
		DDH4WVVQ@QDHV@W4CHW4C	
			2
			S
	S	000000000000000000000000000000000000000	SE
	CALL	404 600 9/10/20/20/20/20/20/20/20/20/20/20/20/20/20	-
	AH I	まままるろろろみ 445000000	
	15		1
	AL	000000000000000000000000000000000000000	0.5
	AN N	000000000000000000000000000000000000000	
	CT.	こまままるろろろ44500000	1
	YZ		5
			ER
			EN
			TOTAL ENERG
			17
			1

TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT -ISOTROPIC NEUTRON SOURCE EMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM 6.070 TO 7.790 MeV TABLE XVIII.

(keV m $^{-3}$ sec $^{-1}$ /source neutron)

		000000000000000000000000000000000000000	
	00	00044000000000000000000000000000000000	29
	90	000000000000000000000000000000000000000	0.8
	1.00E-06	40040 40000000000000000000000000000000	0
	90	000000000000000000000000000000000000000	
	-1117	M40	3.989E
EC)	-07	00000000000000000000000000000000000000	0.8
TIME (S	3.00E-07		_
ELA	-0.7	000000000000000000000000000000000000000	0 8
DE	2.00E-07	40000000000000000000000000000000000000	4.021E
	0.7	400000000000000000000000000000000000000	0.8
	.00E 00		4.153E
	RADIAL DISTANCE INTERVAL (METERS)	404 6 80 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	ENERGY DEPOSITION/S
			TOTAL

TABLE XVIII. (Continued)
(keV m⁻³ sec⁻¹/source neutron)

NEUTRONS	-05 3.50E-05		m
	1.00E-05 2.00E-05	800444 88880044444646 100048048848860 100048049448800 10008444084000 10008444084000 10008444084000 1111111111111111111111111111111111	1.342E 08
.790E 00 MEV	7.00E-06-05		2.049E 08
6.070E 00 TO 7	5.00E_06_06		2.393E 08
			2.661E 08
	VAL CHETER	144408000000000000000000000000000000000	RGY DEPOSITION/
			TOTAL ENE

TABLE XVIII. (Continued)
(keV m⁻³ sec⁻¹/source neutron)

		00111110000010111100	
	0 0 0 E	000044N04V04WV00WV444	ш
	7.0	日本まるこれのよりものもできまるこ	-
	000	000v-0400r400w-w4440r0r	1.087E 04
SNO	E-04		0E 05
NEUTRON	10		1.34
OO	0 0 E - 0	000V 4000V 4000 4000 4000 4000 4000 400	1.202E 06
TO 7.	0.05-0		0
. 9	5.00E-	$\begin{array}{c} 1 \\ \text{NOUMBORD} / \text{LOO4UMBORD} / \text{LOO4UMBORD} / \text{LOO5UMBORD} / \text{LOO5UMBORD} / \text{LOOO7UMBORD} / \text{LOOO07UMBORD} / \text{LOOO7UMBORD} / \text{LOOO7UMBORD} / \text{LOOO7UMBORD} / \text$	1.061E 07
	ISTANCE (METERS)	444 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	DEPOSITION/
			TOTAL

TABLE XVIII. (Continued)

NEUTRONS			
OO MEV			
7.790E			
OE OO TO DELA	50E-0	00000000000000000000000000000000000000	9E 0
6.0706	-03 2.	000000000000000000000000000000000000000	
	1.00E-0	00/07/44/44/08/02/08/49 00/08/05/40/44/88/55/0008 00/08/05/40/44/88/55/05/0008	.78
	TANCE METERS)		ONISEC
	AL (40400000000000000000000000000000000000	10
	NAN	नन ।	ERGY

TOTAL ENERGY

	_	
POINT	FROM	
A	AL	
FROM	INTERV	
CE	Y	
TABLE XIX. TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT	ISOTROPIC NEUTRON SOURCE EMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM	
AL I	THE	
RADI	IN	
SA	MLY	
R	ORI	
A]	NI	
IN	n S	
LON	LIN	
II	III	
POS	豆	
DE	SCE	
KGY	SOU	
NE	NO	A
T	TRO	Me
DEN	NED	7.790 TO 10.0 MeV
PEN	21	0 1
-DE	OP	T
ME-	OTF	790
TI	IS	7.
IX.		
EX		
ABL		
T		

(keV m $^{-3}$ sec $^{-1}$ /source neutron)

		000000000000000000000000000000000000000		
	000		83E	
		000000000000000000000000000000000000000		
	00	00040 00044000000000000000000000000000	0	
	90		0.8	
	00 0E		5.403E	
	-07	000000000000000000000000000000000000000	0.8	
ME (S	· M			
ELA	110	00000000000000000000000000000000000000	0.8	
	2.00E-07	.00F-07	000000000000000000000000000000000000000	4.741E
	007	000000000000000000000000000000000000000	0.8	
	.00F 2.00E	NC00000000000000000	5.275	
	DISTANCE DAL (METERS)	14144000000000000000000000000000000000	DEPOSITION	
			101	

TABLE XIX. (Continued)
(keV m⁻³ sec⁻¹/source neutron)

	50E-05 3.50E-05-		9E 07 2.730E 0
V NEUTRONS	05-1 0E-0		10F 0
. 000E 01 ME	00E-06-0		0E 0
	0.0E-0	ON 44NNO O 4124NNO O O O O O O O O O O O O O O O O O O	3.026E 08
7.	E-06 00E-0	40w044 44m0	0 30
	DISTANCE AL (METER	14440000000000000000000000000000000000	DEPOSITION/S
			101

TABLE XIX. (Continued)

	0 0 E - 0	04W0044WWW4V040V4W0V0 040W0V00V00V000000044 0044WWW0V004040W0044WW mmmmmmmmmmmmmmmmmmmmmmmmmm	2.007E 03
	000 4 m	0040664448488888040000	M
NEUTRO	04-10 0E-0	000CVW04140V8V0VW1414CVV	1.398E 05
.000E 01	E 04 -	004 000 000 000 000 000 000 000 000	1.194E 06
90E 00 TO	00E-0		.0
7	5.00E-05	040004400000044404400 000000400000044000000	1.124E 07
	DISTANCE AL (METERS)	1444 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ENERGY DEPOSITION/SEC
			TOTAL

TABLE XIX. (Continued) (keV m⁻³ sec⁻¹/source neutron)

NEUTRONS						
O1 MEV N						
AY TIME	m or	~ യ യ യ യ യ യ	ာတတာတာတာတ	ဆထထတဝ	.000	1
0 10	30000		0000040 000000 000000 000000	87.20 87.20 97.20 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40 97.40	2012E	
. O 10	20100	900 10/2 95 87 68 6 1111111111111111111111111111111111	SIN 段 フ こ		55.00 8.00 8.00 8.00 8.00 8.00 8.00 8.00	3,101E 02
NAT	CA THE	4 4 8 9 0 0 0	00000	00000	0000	TIONISEC
0	A I O	000000	00000	00000	0000	
						TOTAL ENERGY

TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT ISOTROPIC NEUTRON SOURCE EMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM 10.0 TO 12.0 MeV TABLE XX.

	-
	neutron
	/source
7	sec
- 3	E
	(keV
1	(keV m

	100	04444044 00440444000000000000000000000	M
		000000000000000000000000000000000000000	
	00	4WUU4U 040144W\$00000000000000000000000000000000	10
	90		0 8
	110	0///0000000000000000000000000000000000	9.258E
EC)		040000000000000000000000000000000000000	60
IME (S	100	40 60/ 0000000000000000000000000000000000	1
ELAY	0,	90000000000000000000000000000000000000	60
0	00 0E	44 WWOOCCOCOCOCOCOCOCO COCCOCOCOCOCOCOCO ACOCCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOC	10
	.00E 00.5	Macaccacacacacacac	
			97
	E COL	44444444444444444444444444444444444444	S/NO
			SI
	RADIAL	44444444444444444444444444444444444444	DEP
			TAL
			1

TABLE XX. (Continued)
(keV m⁻³ sec⁻¹/source neutron)

	005		A F
	-05 50E-0		1
NEUTRONS	05-05 0E-05	COO	1.418F 08
TO TO	00E-0	0000V 44 000004 04000000 0000V 40000000000000000000000000000000	
01 TO	0.06 0.06 0.06	000000000000000000000000000000000000000	4.391F 08
	E-06 00E-0	404WWWH-MQ	5.148E 08
411	STANCE	14444000000000000000000000000000000000	NERGY DEPOSITION/S
			AL E

TABLE XX. (Continued)
(keV m⁻³ sec⁻¹/source neutron)

	004 0 - 10	000000004004+0000440000 100000044440000000000	36E
	004	### ### ##############################	5
NEUTRO	041 0E-0	000 / 000 4 4 8 8 8 4 8 8 8 8 8 8 8 8 8 8 8 8	1.330E 05
-200E 0	14m	014040N@00140N@0V0@0V1	1.142E 06
01 TO	0 0 0 E		4.025E 06
1.	0.5 E-0	0000 44 \ \times 0 \	9.298E 06
	STANCE	44444000000000000000000000000000000000	RGY DEPOSITIO
			TOTAL ENE

TABLE XX. (Continued)
(keV m⁻³ sec⁻¹/source neutron)

NEUTRONS			
TIME (SEC)			
Ol TO 1.	100	00000000000000000000000000000000000000	3.452E 01
	6-03 006-03	00000000000000000000000000000000000000	27E 0
	DISTANCI	444 444 404 404 404 404 404 404 404 404	OSITIONISEC
	TER	1 11111000004400000	ENERGY DEP
			TOTAL

TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT ISOTROPIC NEUTRON SOURCE EMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM 12.0 TO 13.5 MeV TABLE XXI.

 $(\text{keV m}^{-3} \text{ sec}^{-1}/\text{source neutron})$

DELAY TIME (SEC)

-	1101	000000000000000000000000000000000000000	0
	00	20000000000000000000000000000000000000	4
	2		
1		000000000000000000000000000000000000000	60
	90	000000000000000000000000000000000000000	
-	90	 00000000000000000000000000000000000	60
			1.312E
		000000000000000000000000000000000000000	60
	05 05	44 0 44 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0
	0.7	00000000000000000000000000000000000000	60
1		000000000000000000000000000000000000000	1.527E
	0.07		60
			1.832E
	VAL CMETER	14444000000000000000000000000000000000	DEPOSITION/
			TOTA

TABLE XXI. (Continued)

	-05	occoccoccoccoccoccoccocc	07
	00 7 1	100004447M47000004M40401	
	30 E	000000040000400000000000	. 71
	3.	WUUUUHHUHHHON 94 MH 9 H	-
			0 7
			5E
	0 E -	OOH4@U04L0N0N@0@UN444	. 61
	2.0	№ 44000000 4400000 44400 400	4
	0.5	000000000000000000000000000000000000	0.8
ONS			90
NEUTRONS	0E-		. 42
	1.0		-
M C	110		0.8
O1 SE	00	00000000000000000000000000000000000000	6E
MM.		400000000000000000000000000000000000000	. 4
.35	7.0	 0 0 0 4 W W W W 0 0 W W 0 4 4	,
FLAY	90	000000000000000000000000000000000000000	0 8
01	90 E8		42E
	00E-	COC4W04 00 4044 40000000	4.9
.200E	ι.		
7	-06	000000000000000000000000000000000000000	0 8
	00	000000W44644000000000000000000000000000	22E
	500	04WW4W04WW	7.3
	E CHI	locoochoncopooccooc	15
	AM!	नन्न ।	0
	-		115
	IAL ERV	000000000000000000000000000000000000000	I L
	RADINTE	11111111111111111111111111111111111111	1>
			NERG
			T T
			TOTAL ENE
			-

CONTRACT.

TABLE XXI. (Continued)

	neutron)
	source
1	sec ,
	keV m

1.200E 01 TO 1.350E 01 MEV NEUTRONS DELAY TIME (SEC)

	76	
	404@4044444400004400	6E 0
4.00E-04-	ИНННФИНФИВФФЛАМИФ41 СОФЖНО44ИОНОФВФФИОРО4 СООГИМВВИРОСОСОВРВИВИ ПОПИВВИРОСОВОВРВИВИ ПОПОВОВОВОВОВОВРВИВИ ПОПОВОВОВОВОВОВОВОВОВОВОВОВОВОВОВОВОВОВ	.188E
2.00E-04-	CCC/14/80:44/40/80	1.270E 05
1.00E-04	11111111111111111111	
7.00E-05	1000 ∞ V	79
5.006-05	044447779999999999999999999999999999999	8.211E 06
TERS)	1111146288844886811111111111111111111111	ENERGY DEPOSITION/SEC
		TOTAL

TABLE XXI. (Continued)

	neutron)	
	source	
1	sec 1	
1	E	
	(keV	

7.350E 01 MEV NEUTRONS			
01 TO	.00E-03	OCW44000000000400000000	3.178E 01
	00E-03	00000144404000000000000000000000000000	2.937E 02
	AL DISTANCE RVAL (METERS)	404 0 80 0 90 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DEPOSITION
			TOTAL

TIME-DEPENDENT ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE FROM A POINT ISOTROPIC NEUTRON SOURCE EMITTING UNIFORMLY IN THE ENERGY INTERVAL FROM 13.5 TO 15.0 MeV TABLE XXII.

DELAY TIME (SEC)

47000

	000000000000000000000000000000000000000	60
06- 0E-	000%-1004-6000000000000000000000000000000000	0
	000000000000000000000000000000000000000	
	00/2040 04/00000000000000000000000000000	0
90	000000000000000000000000000000000000000	60
5.00F-07 1.00E	000000000000000000000000000000000000000	1.493E
 -07	MMM00000000000000000000000000000000000	-
	0000000000000000000	1.889E
0.7	000000000000000000000000000000000000000	60
2.00E-07	NN 400000000000000000000000000000000000	0
0.	000000000000000000000000000000000000000	60
 .00E 00	wo	1.949E
AL DISTANCE	11111111111111111111111111111111111111	ONISEC
		101

79

TABLE XXII. (Continued)

	neutron)
	source
-	sec /
-3	E
	(keV

	3.50E-0	0040 444 4 0 0 4 4 4 4 4 6 6 4 8 4 8 8 4 8 8 4 8 8 4 8 8 4 8 8 4 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	580E 07 1.743E
V NEUTPONS	1.00E-05-	00WV 004444440049WC44W	2E 0
TO 1.500E 01	0E-06-		3.307E 08
	0 0 0 E	00404000004444000000000000000000000000	5.596E 08
	100	004 UNIVOO4 HON-HODOCOCC	8.893E 08
	IAL DISTANCE ERVAL (METERS	144460000000000000000000000000000000000	-
			TOTAL

TABLE XXII. (Continued) (keV m⁻³ sec⁻¹/source neutron)

		00	
	4H	- 000000000000000000000000000000000000	7E 0
	4.00E-04		1.160E 04
V NEUTRONS	2.00E-04 4.00E-04	004000 0000 0040 0000 0040 0000 0040 0000 0040 0040 0040 0040 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 0060 00	1.281E 05
.500E 01 ME	1.00E-04 2.00E-04		1.062E 06
O1 TO	7.00E-05	000000000000000000000000000000000000	3.430E 06
1	5.00E-05	МННФФГГОФФ444ММОНПОН ССМОЙОФФОГОФГИМОСМИСИ ССОИФОРОФ444ММНФТИГА ОСОФМОЙОЙИО444СНИФООФ ПППППППППППППППППППППППППППППППППП	7.726E 06
	VAL (METERS)	40448000000000000000000000000000000000	RGY DEPOSITION/SEC
			TOTAL ENE

TABLE XXII. (Continued)

(keV m 3 sec 1/source neutron)

.350E 01 TO 1.500E 01 MEV NEUTROI	2.00E-03 3.50E-03	44400488404004000480048004800440004400	3
	00E-03	CC & N & & N & N & N & W & W & W & W & W &	2.972E 02
	ADIAL DISTANCE	404000 WV O WO WO WO O O O O	TOTAL ENERGY DEPOSITION/SEC

TOTAL ENERGY DEPOSITION IN AIR VS RADIAL DISTANCE AND SOURCE ENERGY INTERVAL FOR POINT ISOTROPIC NEUTRON SOURCES TABLE XXIII.

(keV m⁻³/source neutron)

	5-01 30E-0	14000400004040414440040	25E 0
	E - 0 2 4 0 E - 0	944 4978447447844408 0847 0789 4400 477 778 700 147 448 490 400 400 007 97 97 97 97 97 97 97 97 97 97 97 97 97	57E 0
EV)	480E-02 6.760E-0	4 0 0 8 0 0 4 1 4 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2E 0
SOURCE ENERGY BOUNDS (.120E-03	5.01/10/10/10/10/10/10/10/10/10/10/10/10/1	
	03 -	00/2 0000000000000000000000000000000000	6.239E 00
	E-03 50E-0	00-100-100-100-100-100-100-100-100-100-	4E 0
	DISTANCE L (METERS)	11111111111111111111111111111111111111	TOTAL

TABLE XXIII. (Continued) (keV m⁻³/source neutron)

	5E 0	14040-1004000	2E 0
	2E 000	0004000440000440004440 1004484604400000000000000000000000000000	5E 0
MEV)	8E 00	000000000000000000000000000000000000	1.545E 03
SOURCE ENERGY BOUNDS (M	.230E 01 1.353E 00	000000000000000000000000000000000000	1.089E 03
	01 E-01	000	6.610E 02
	.930E-01	# 0	4.007E 02
	DISTANCE L (METER	44444000000000000000000000000000000000	1

84

| N4 | V 0 N V M N H 0 M 4 N H 0 M N M N H M H 1 0 1410mm444mmmmm000000mm00 im | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 BW I HOWOUTH A UNHORWAN HOW HA HO I W 12 W10000000000000000000000 0

neutron)

m /source

(keV

(Continued)

XXIII.

TABLE

TABLE XXIII. (Continued)

(keV m⁻³/source neutron)

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